

Zytel® 105F BK010

NYLON RESIN
DuPont Performance Polymers

Message:
Unreinforced, UV Stabilized, Polyamide 66

General Information				
UL YellowCard		E41938-234371		
Additive		Lubricant		
		Mold Release		
		UV Stabilizer		
Features		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66<		
Resin ID (ISO 1043)		PA66		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	1.3	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	8.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.7	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	1500	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.3	25	%	ISO 527-2
Nominal Tensile Strain at Break	24	> 50	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	1340	MPa	
1000 hr	--	600	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	3.0	kJ/m ²	

23°C	6.0	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	55	kJ/m ²	
23°C	45 kJ/m ²	No Break		
Notched Izod Impact Strength				ISO 180/1A
-30°C	4.0	3.0	kJ/m ²	
23°C	5.0	12	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	205	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	60.0	--	°C	ISO 11357-2
Vicat Softening Temperature	240	--	°C	ISO 306/B50
Melting Temperature ²	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-4	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.710 mm	V-2	--		
1.50 mm	V-2	--		
Oxygen Index	27	--	%	ISO 4589-2
Additional Information	Dry	Conditioned	Unit	Test Method
Emission of Organic Compounds	6.60	--	µgC/g	VDA 277
Odor	2.5	--		VDA 270
NOTE				
1.	10°C/min			
2.	10°C/min			

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